

INDIANA DEPARTMENT
OF
HOMELAND SECURITY

INSPECTOR I

SAMPLE TEST

1. In an assembly area of less concentrated use, such as a conference room or dining room measuring 150 feet by 200 feet, what would be the occupant load, if a load factor of 15 sq. ft. per person is used?

A. 1,000 B. 2,000 C. 500 D. 5,000
2. Which NFPA Standard refers to the installation of equipment for the removal of smoke and grease-laden vapors from commercial cooking equipment?

A. NFPA 101 B. NFPA 96 C. NFPA 13 D. NFPA 10 E. NFPA 1031
3. The principle which most closely describes how water extinguishes fire is:

A. removal of fuel. B. reduction of temperature.
C. exclusion of oxygen. D. inhibition of a chain reaction.
4. Which is a hazard associated with the handling and use of flammable and combustible liquids?

A. Ventilation B. Static electricity
C. Closed containers D. Bonding containers
5. Exterior walls and structural members that are of approved noncombustible or limited-combustible materials and interior structural members constructed wholly or partly of wood are considered _____ construction.

A. Type I B. Type II C. Type III D. Type IV
6. The trouble signal of a fire alarm system is dependent on the:

A. signaling circuit. B. initiating devices.
C. indicating devices. D. supervisory circuit.
7. A water supply system flow test to determine the available water for firefighting should be made every _____ or sooner if any improvements or extensions have taken place.

A. one year B. three years C. five years D. seven years
8. Convection is:

A. transfer of heat through space by infrared rays.
B. transfer of heat through a solid medium.
C. not considered a method of heat transfer.
D. transfer of heat through liquids and gases by circulating currents.

9. Which of the following **is not** helpful to consider when writing a letter?
- A. The reader will be reading the letter with interest.
 - B. Use a natural and clear expression of thoughts.
 - C. Maintain an awareness of the thoughts, feelings, and impressions that might be evoked when the recipient reads the letter.
 - D. Remember not to think in terms of the letter being a substitute for an actual conversation.
10. Loading and unloading stations for Class I liquids should be no closer than _____ feet from storage tanks, property lines, or adjacent buildings?
- A. 25 B. 10 C. 15 D. 50
11. The common classifications of sprinkler systems include all of the following **except**:
- A. wet-pipe system.
 - B. dry-pipe system.
 - C. deluge system.
 - D. external-supply system.
12. Choose the **best** answer regarding the difference between compressed and liquefied gases at normal temperatures. Within a pressurized container:
- A. compressed gases are in both a liquid and gaseous state.
 - B. compressed gases are only in a gaseous state.
 - C. liquefied gases are only in a liquid state.
 - D. liquefied gases are in a gaseous state only.
13. According to NFPA 101, Life Safety Code, a building or portion of a building used for gathering together 50 or more persons for such purposes as worship, entertainment, or dining is classified as a/an:
- A. place of assembly.
 - B. business occupancy.
 - C. occupancy of unusual structures.
 - D. mercantile occupancy.
 - E. educational occupancy.
14. During a school fire drill, teachers and staff should have responsibility for:
- A. placing students' papers and reports in a safe place.
 - B. checking rest rooms or other rooms for students.
 - C. resetting fire alarm panels.
 - D. being sure classroom doors are locked.
15. Accurate record keeping is a crucial function of any fire prevention bureau. These records provide _____ activities in that jurisdiction.
- A. a historical perspective of fire prevention
 - B. emergency medical service
 - C. accounts of fire suppression
 - D. fire fighter training

16. The following are all elements of what type of plan?

- The location of hydrants and water mains
- The slopes or grades affecting placement of ground ladders
- Grades on roadways affecting placement of fire department apparatus
- Actual location of fire department connections

A. Elevated view
D. Site

B. Plan view
E. Distribution

C. Floor

17. **Directions:** (*Caution—this is a two-step question worth 5 points*).

The following steps for conducting a main drain and alarm test on dry pipe sprinkler systems are disordered. **First**, number the steps 1 - 6 in the blanks beside each showing the order in which they should be performed. **Then**, select the matched answer from alternatives A-D below.

- _____ Slowly open the 2-inch (50 mm) drain.
_____ Slowly close the 2-inch (50 mm) main drain valve.
_____ Calculate the difference in readings. If the pressure has dropped significantly, try to determine whether a supply line valve is partly closed or supply line piping is obstructed.
_____ Test the alarm by having the alarm test by-pass valve opened.
_____ Record the static pressure showing on the lower gauge.
_____ Record the residual pressure.

A. 4, 5, 2, 1, 6, 3 B. 2, 4, 6, 5, 3, 1 C. 2, 4, 5, 6, 1, 3 D. 3, 6, 2, 4, 1, 5

18. Private driveways or parking lots may consist of either a _____ skin of asphalt over the top of gravel or a _____ slab of concrete.

A. Thin/Thick B. Thin/Thin C. Thick/Thin D. Thick/Thick

19. In a water supply system, the sizes of the water mains from the largest to the smallest are:

- A. primary, distributor, secondary. B. distributor, secondary, primary.
C. secondary, primary, distributor. D. primary, secondary, distributor.

20. Prior to a court case, an inspector should do all of the following **except**:

- A. reinspect the facility the day before the trial.
B. go over his/her testimony with the prosecutor before entering the courtroom.
C. appear in proper uniform or be neatly dressed.
D. volunteer information to make responses as detailed and complete as possible.

REFERENCE LIST FOR FIRE INSPECTOR I - 7.0

Publisher, Title, Edition

Reference Code

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|--|-----------|
| 1. IFSTA, <i>Fire Inspection and Code Enforcement</i> , 6th Edition, 1st Printing | FICE 6 |
| 2. IFSTA, <i>Essentials of Fire Fighting</i> , 4th Edition, 1st Printing | EOFF 4 |
| 3. Delmar, <i>Firefighter's Handbook</i> , 1st Edition, 1st Printing | FFH 1 |
| 4. NFPA 1031 <i>Standard for Professional Qualifications for Fire Inspector and Plan Examiner</i> , 2003 Edition | NFPA 1031 |